

Datasheet

Durethan AKV315ZH2.0 900116

PA 66, 15% glass fibers, blow molding, improved impact strength, heat-aging stabilized

ISO Shortname: ISO 16396-PA 66, GF20, BHR, S14-060

Property	Test Condition	Unit	Standard	guide value ¹	
				d.a.m.	cond.
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	6000	3100
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	130	75
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	4.5	17.5
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	85	115
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	60	65
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	<10	15
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	<10	<10
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	70	100
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	55	55
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	<10	15
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	<10	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	5200	2600
Flexural strength	2 mm/min	MPa	ISO 178-A	200	105
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	6	7
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	170	
Ball indentation hardness		N/mm ²	ISO 2039-1	190	
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	258	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	225	
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1228	
Bulk density		kg/m ³	ISO 60	640	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	290	
C Injection molding-Mold temperature		°C	ISO 294	80	
Processing recommendations					
Drying temperature dry air dryer		°C	-	80	
Drying time dry air dryer		h	-	2-6	
Residual moisture content		%	Acc. to Karl Fischer	0-0.06	
Melt temperature (Tmin - Tmax)		°C	-	280-300	
Mold temperature		°C	-	80-120	

Notes

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1 Typical properties: these are not to be construed as specifications

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

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